

DISCUSSION page -4-

[responds to Section V-B, questions (19) and (23)]

ALLOCATION STUDY

FM SEARCH RESULTS FOR: RURAL INIT - HARTFORD MI N 42-18-02 W 86-15-03

CHANNEL # 279A

CALL	LOCATION	STATE	CHANNEL	STATUS	N. LATITUDE	W. LONGITUDE	DEG.	SEPARATION			RESULT:
								AZ	IN	KM	
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WKFR-FM	BATTLE CREEK	MI	277B	LIC	42 21 19	85 20 28	85.0	75.2	69	CLEAR	6.2 KM
WVGR	GRAND RAPIDS	MI	281B	LIC	42 41 13	85 30 35	54.5	74.5	69	CLEAR	5.5 KM
WTCM-FM	TRAVERSE CITY	MI	278C	CP	44 27 31	85 42 2	10.3	243.8	169	CLEAR	74.8 KM
ALLOC	ROYAL CENTER	IN	279A		40 52 0	86 30 0	187.5	160.6	105	CLEAR	55.6 KM
WHNE	SOUTH BEND	IN	276A	LIC	41 36 11	86 12 51	177.7	77.5	27	CLEAR	50.5 KM
WZZP	SOUTH BEND	IN	280A	LIC	41 41 53	86 9 20	173.3	67.4	64	CLEAR	3.4 KM
WFYR	CHICAGO	IL	278B	LIC	41 52 44	87 38 10	248.2	123.8	105	CLEAR	18.8 KM
WFYR	CHICAGO	IL	278B	CP	41 52 44	87 38 10	248.2	123.8	105	CLEAR	18.8 KM

This allocation study assumed a radius of 300 kilometers from the proposed site. As the requirement of the US/Canadian Working Agreement, Section 2.4, gives the maximum separation between US and Canadian Stations to be considered for interference as 242 kilometers, it is therefore concluded that this application complies with all requirements of that Agreement.

E. HAROLD MUNN, JR.
& ASSOCIATES, INC.
Broadcast Engineering Consultants
Coldwater, Michigan

EXHIBIT "A"

The proposed transmitter is located within 10 km of existing or proposed FM and/or TV transmitters. This applicant does not believe that any adverse effects on the operation of any existing or proposed facility would result from a grant of this application. The frequency separations, and the physical distance between the facilities should preclude any effects.

In the event such harmful effects are noted, including but not limited to receiver-induced or other types of modulation, the applicant accepts full responsibility for the elimination of any objectionable interference to facilities in existence or authorized or to radio




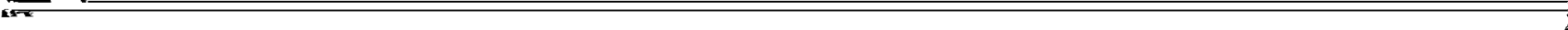

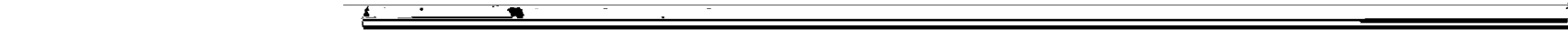


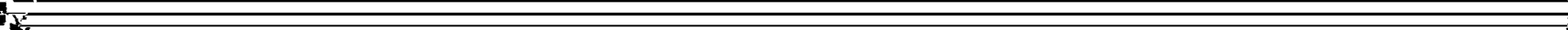







EXHIBIT E-1

CHICAGO
SECTIONAL AERONAUTICAL CHART
SCALE 1:500,000
Lambert Conformal Conic Projection Standard Parallels 41°20' and 46°40'
Topographic data corrected to March 1973

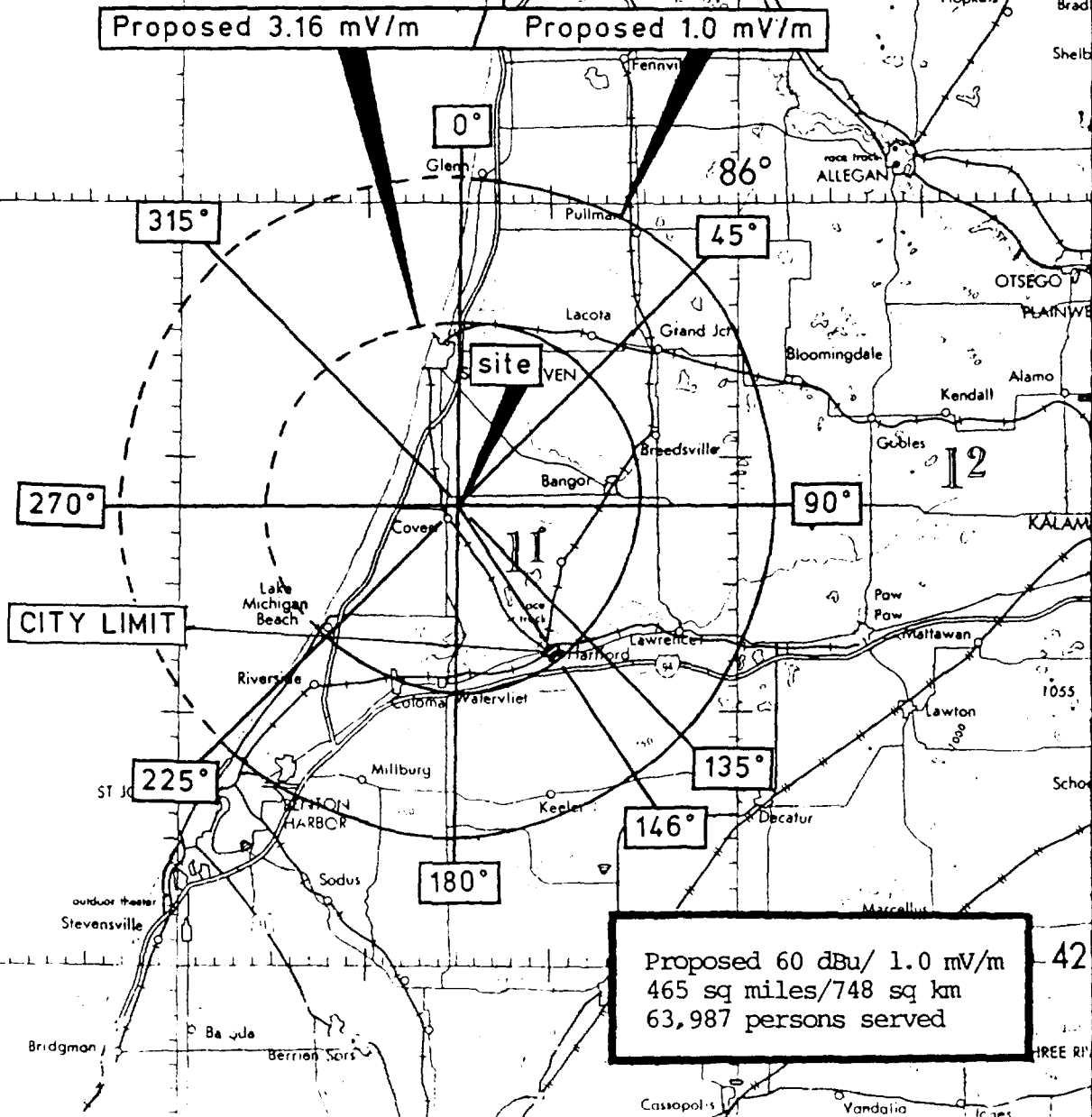
CHICAGO
SECTIONAL AERONAUTICAL CHART
SCALE 1:500,000
Lambert Conformal Conic Projection Standard Parallels 41°20' and 46°40'
Topographic data corrected to March 1973

CHICAGO
SECTIONAL AERONAUTICAL CHART
SCALE 1:500,000
Lambert Conformal Conic Projection Standard Parallels 41°20' and 46°40'
Topographic data corrected to March 1973



Proposed 3.16 mV/m

Proposed 1.0 mV/m



Proposed 60 dBu/ 1.0 mV/m
465 sq miles/748 sq km
63,987 persons served

EXHIBIT E-2

ANALYSIS OF TOPOGRAPHIC DATA EMPLOYED

The topographic data employed in this application is based on the National Geophysical Center thirty second point topography data base (TPG-0050).

The averages calculated include 81 points between 3 and 16 km.

The transmitter site elevation was determined by means of 7.5' series topographic mapping. The site coordinates were also developed from the 7.5' series map.

A portion of that map is included in this report as Exhibit E-5.

A detailed topographic analysis using 7.5' topographic maps will be supplied to the Commission if requested.

EXHIBIT E-3

VERTICAL PLAN

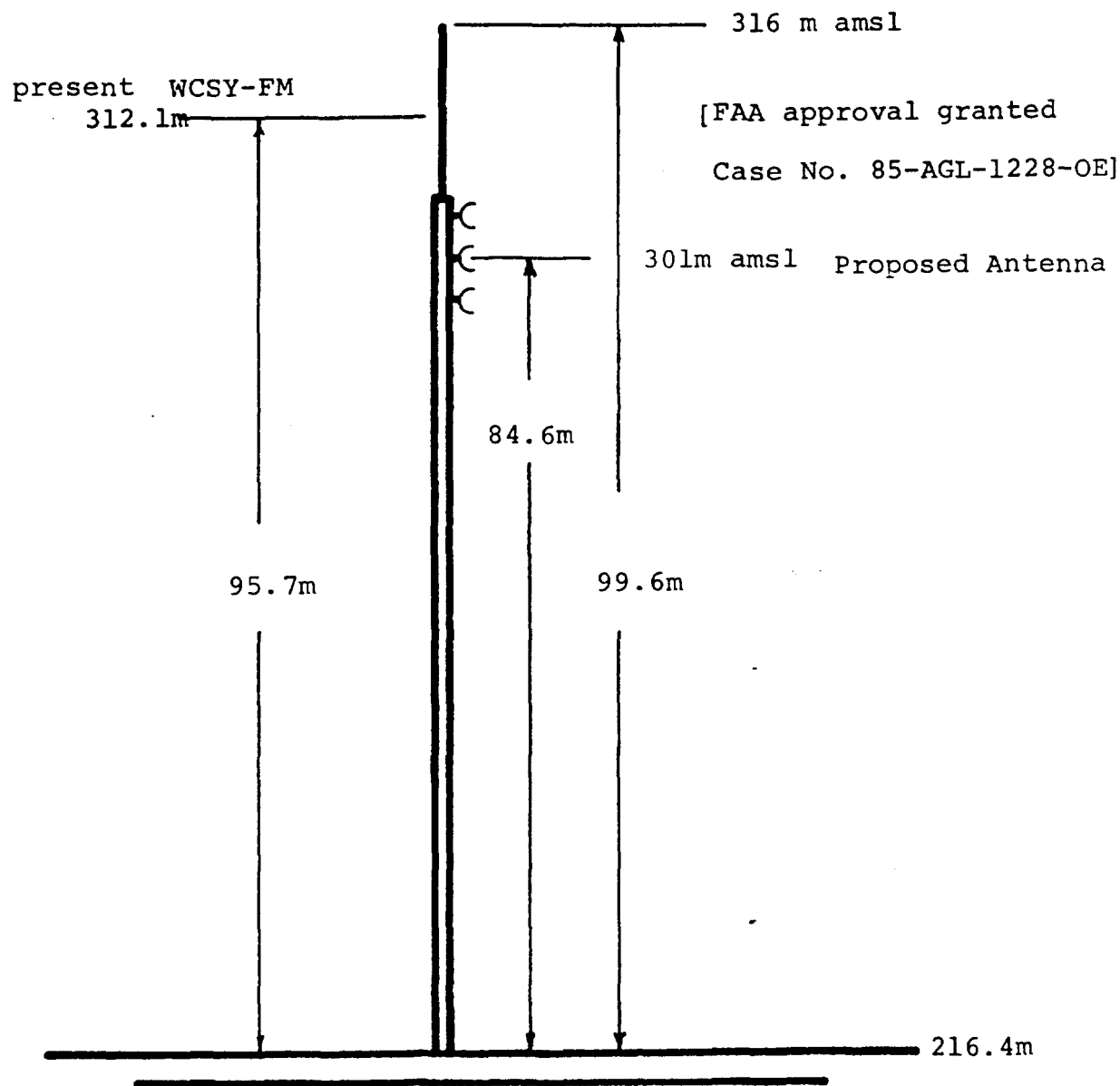
SITE LOCATION

NL 42°18'02"

WL 86°15'03"

32nd.Ave., east of M-140, near
Covert, VanBuren Co., Mi.

PRESENT WCSY-FM SITE



not to scale

guys not shown

EXHIBIT E-4

OPERATING SPECIFICATIONS - PROPOSED

Applicant: Rural Initiatives for Shelter and Education

Frequency: 103.7MHz Channel: 279A ERP: 3.0 kW HAAT: 100m

Transmitter:

Manufacturer: TBA Type No.: TBA Power: 2.5 kW

Antenna:

Manufacturer: TBA Type No.: TBA No. Sec.: 3-bay
Power Gain: 1.5588 Field Gain: 1.2485 mV/m/kW: 171.8

Transmission Line:

Manufacturer: Cablewave Type No.: FLC-114-50J Desc. foam dielectric coax
Size: 1.25 " OD Loss, db/100' = 0.12 Length: 350'
Efficiency for this proposed operation = 90.8%

PROPOSED OPERATING PARAMETERS:

Effective Radiated Power: 3.0 kW Antenna input Power 1.9 kW
Line Loss: 0.193 kW Transmitter output Power: 2.093 kW

EXHIBIT E-5A

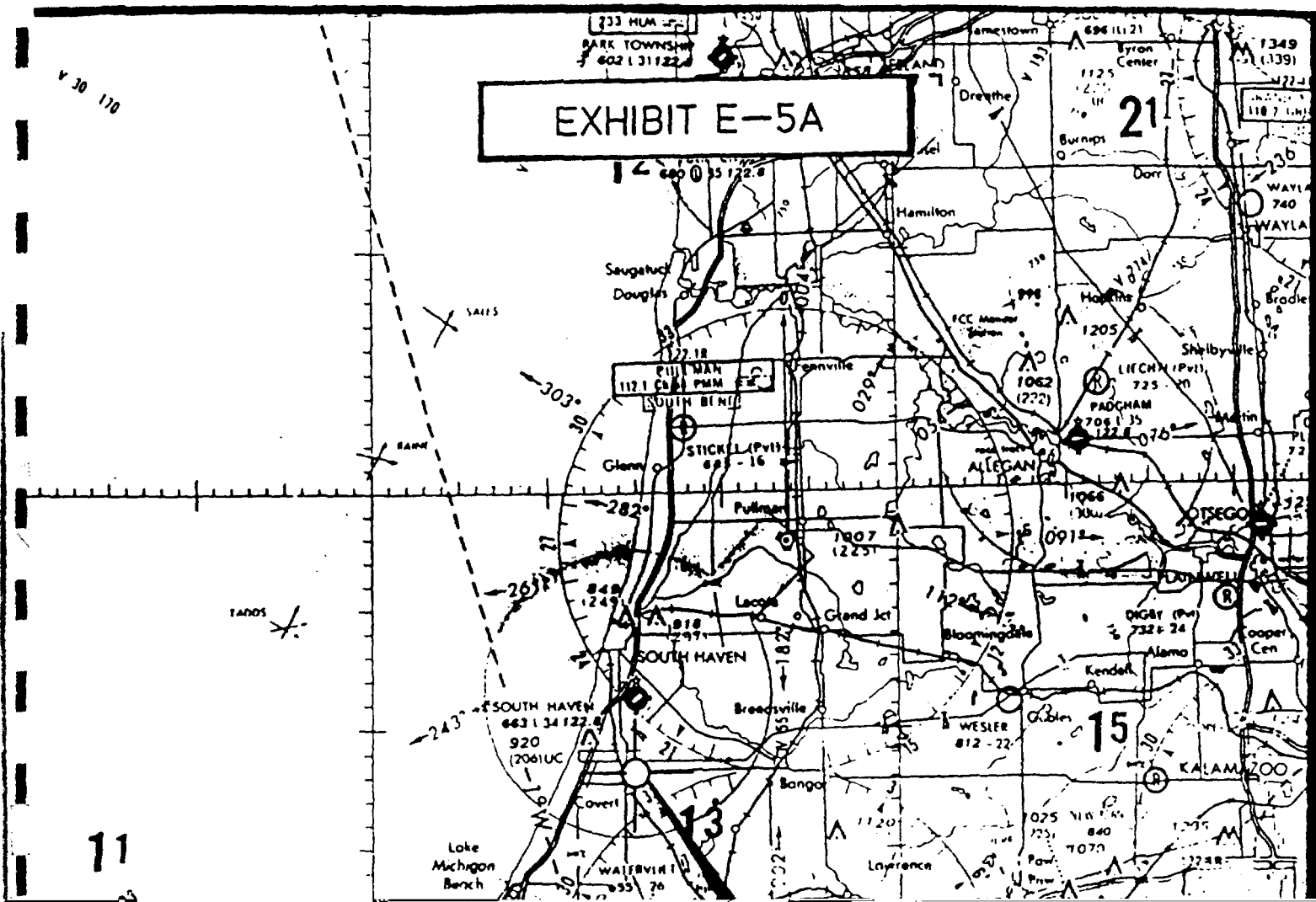


EXHIBIT E-6

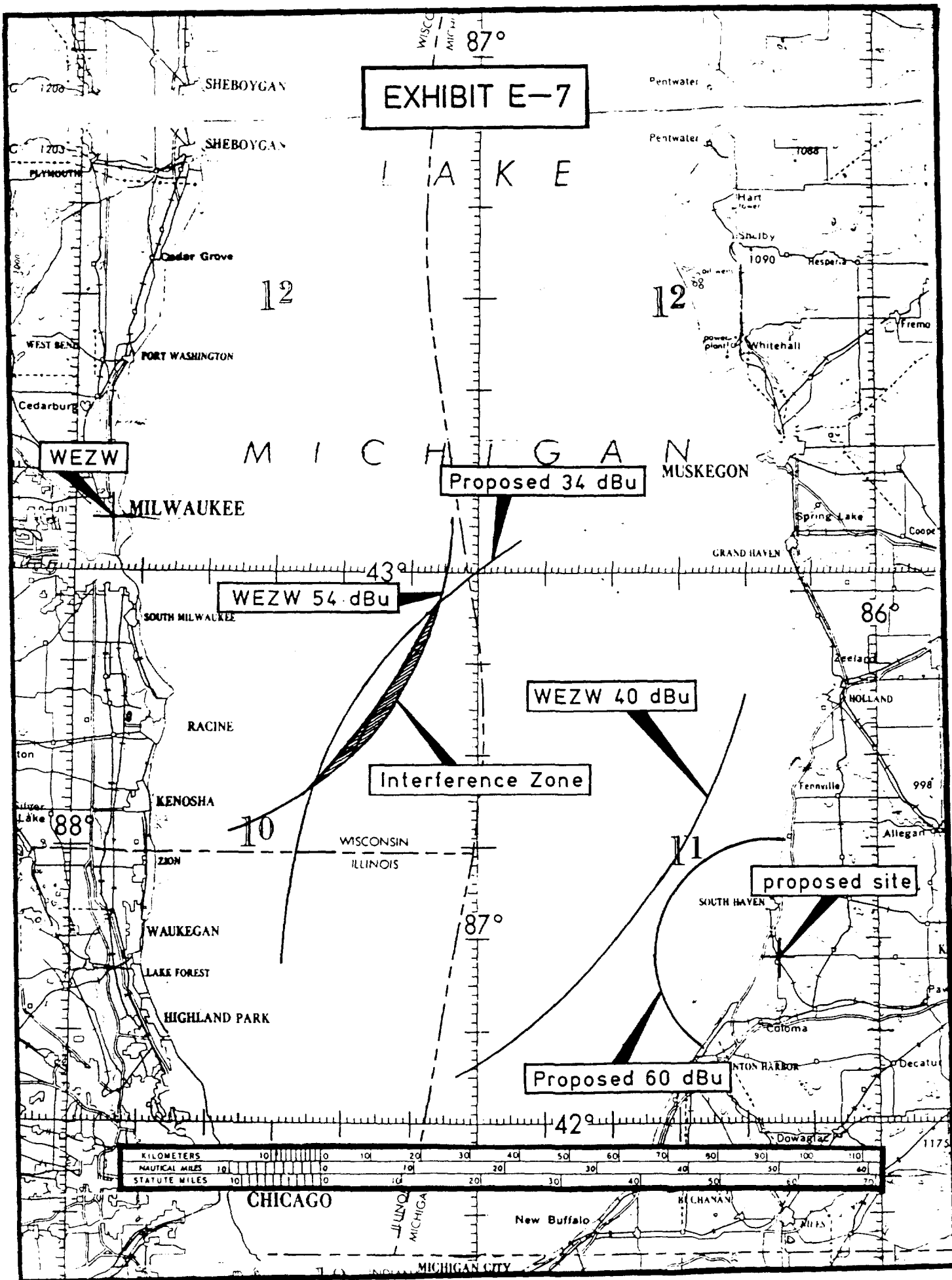
TABULATION OF POPULATION AND AREA

	<u>CONTOUR</u>	<u>POPULATION</u>	<u>AREA</u>
PROP.	1.0 mV/m(60 dBu)	63,987 Persons	748 sq.km. 465 sq.mi.

The population served by this proposal was determined by superimposing the proposed contour onto U.S. Standard Civil Division Maps of the 1980 Census, and assuming uniform population distribution within each division.

Area within the 1.0 mV/m (60 dBu) contour was determined by measurement using a calibrated polar planimeter.

EXHIBIT E-7



SITE

